BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF DELAWARE

IN THE MATTER OF THE APPLICATION)	
OF DELMARVA POWER & LIGHT COMPANY		
FOR AN INCREASE IN ELECTRIC BASE)	PSC DOCKET NO. 09-414
RATES AND MISCELLANEOUS TARIFF)	
CHANGES (FILED SEPTEMBER 18, 2009))	
IN THE MATTER OF THE APPLICATION)	
OF DELMARVA POWER & LIGHT COMPANY)	
FOR APPROVAL OF A MODIFIED FIXED)	PSC DOCKET NO. 09-276T
VARIABLE RATE DESIGN FOR ELECTRIC)	
RATES (FILED JUNE 25, 2009))	

Direct Testimony and Exhibits of Howard Solganick

On Behalf of the Staff of the Delaware Public Service Commission

February 10, 2010

1		Qualifications
2		
3	Q.	Please state your name, position and business address.
4		
5	A.	My name is Howard Solganick. I am a Principal at Energy Tactics &
6		Services, Inc. My business address is 810 Persimmon Lane, Langhorne,
7		PA 19047.
8		
9	Q.	Please summarize your qualifications and experience.
10		
11	A.	I am licensed as a Professional Engineer in Pennsylvania (active) and
12		New Jersey (inactive). I hold a Professional Planner's license (inactive) in
13		New Jersey. I served on the Electric Power Research Institute's Planning
14		Methods Committee and on the Edison Electric Institute Rate Research
15		Committee. I have been appointed as an arbitrator in cases involving a
16		pricing dispute between a municipal entity and an on-site power supplier
17		and a commercial landlord-tenant case concerning submetering and
18		billing. I also previously served on two New Jersey Zoning Boards of
19		Adjustment as Chairman and a Pennsylvania Township Planning
20		Commission as Chairman and member.
21		
22		I have been actively engaged in the utility industry for over 34 years,
23		holding utility management positions in generation, rates, planning,
24		operational auditing, facilities permitting, and power procurement. I have
25		delivered expert testimony in utility planning and operations, including rate
26		design and cost of service, tariff administration, generation, transmission,
27		distribution and customer service operations, load forecasting, demand
28		side management, capacity and system planning, and regulatory issues.
29		
30		I have also led and/or participated in consulting projects to develop,
31		design, optimize, and implement both traditional utility operations and e-

1	commerce businesses. These projects focused on the marketing, sale
2	and delivery of retail energy, energy related products and services, and
3	support services provided to utilities and retailers.
4	
5	I have been engaged by clients to review proposed distributed generation
6	contracts and the operation and integration of generating assets within
7	power pool operations, and have advised the Board of Directors of a
8	public power utility consortium. For a period of four years I was engaged
9	by a multiple site commercial real estate organization to manage its
10	solicitation for the purchase of retail energy. As a subcontractor, I have
11	performed management audits for the Connecticut Department of Public
12	Utility Control and the Public Utilities Commission of Ohio. I also provide
13	(as a subcontractor) support for the Staff and Commissioners of the
14	District of Columbia Public Service Commission for an electric rate case
15	and have previously provided similar services to the D.C. Commission.
16	
17	I have also been engaged to review utility performance before, during and
18	after outages resulting from major storms including hurricane Ike.
19	
20	From 1994 to the present, I have been President of Energy Tactics &
21	Services, Inc. From 1996 to 1998, I was a Managing Consultant for AT&T
22	Solutions. From 1990 to 1994, I was Vice President of Business
23	Development for Cogeneration Partners of America. In that position, I was
24	responsible for the development of independent power facilities, most of
25	which were fueled by natural gas and oil.
26	
27	From 1978 to 1990, I held progressively increasing positions of
28	responsibility with Atlantic City Electric Company in generation, regulatory,
29	performance, planning, major procurement, and permitting areas.
30	

1		From 1971 to 1978, I was an Engineer or Project Engineer for Univac,
2		Soabar, Bickley Furnaces and deLaval Turbine, designing card handling
3		equipment, tagging and printing machines, high temperature industrial
4		furnaces, and utility and industrial power generation equipment,
5		respectively.
6		
7		I received a Bachelor of Science in Mechanical Engineering (minor in
8		Economics) from Carnegie-Mellon University and a Master of Science in
9		Engineering Management (minor in Law) from Drexel University. I have
10		also taken courses on arbitration and mediation presented by the
11		American Arbitration Association, scenario planning presented by the
12		Electric Power Research Institute and load research presented by the
13		Association of Edison Illuminating Companies. I have also taken courses
14		in zoning and planning theory, practice and implementation in both New
15		Jersey and Pennsylvania.
16		
17	Q.	Have you previously submitted testimony in regulatory proceedings?
18		
19	A.	Yes. I have testified and/or presented testimony (summarized in Exhibit
20		HS-1) before the following regulatory bodies.
21		Delaware Public Service Commission
22		Georgia Public Service Commission
23		 Jamaica (West Indies) Electricity Appeals Tribunal
24		Maine Public Utilities Commission
25		 Maryland Public Service Commission
26		 Michigan Public Service Commission
27		Missouri Public Service Commission
28		 New Jersey Board of Public Utilities
29		Public Utilities Commission of Ohio
30		 Pennsylvania Public Utility Commission
31		 Public Utility Commission of Texas

1	Direc	et Testimony
2		
3	Q.	For whom are you appearing in this proceeding?
4		
5	A.	I am appearing on behalf of the Staff of the Delaware Public Service
6		Commission ("Staff").
7		
8	Q.	What is the purpose of your testimony?
9		
10	A.	My testimony analyzes the Company's Customer Class Cost of Service
11		Study ("CCCOSS"), the proposed revenue allocation between classes, the
12		proposed fixed variable rate design, the mechanics of the weather
13		normalization adjustment and the supporting information provided by
14		Delmarva Power & Light Company ("Company"). Based on my review of
15		the Company's application and supporting testimony and the Company's
16		responses to data requests, I have reached the following conclusions:
17		
18		 The Company's CCCOSS includes a number of compromises that
19		decrease its usefulness as a guide to revenue requirements and rate
20		design. Additionally, the CCCOSS inappropriately allocates services
21		(the "service drop") based upon demand, which leads to results that
22		later impact the rate design for residential space heating ("RSH") and
23		non-space heating ("R") customers.
24		• The Company's revenue allocation for the Street Lighting Service class
25		("SL") should be rejected due to its reliance on the compromised
26		CCCOSS and its proposed impact on SL customers compared to other
27		customers.
28		While the Company's rate design proposal creates a revenue neutral
29		situation for itself, the Company has not provided a vision of the future

benefits for its customers as a result of this proposal and its

implementation of advanced metering.

30

31

The Company's proposed rate design provides revenue stability for the 1 Company, which substantially reduces its risk, but proposes a 2 disproportionately small benefit to customers in the form of a 25 basis 3 point¹ reduction to the cost of equity. 4 5 • The Company's rate design proposal meets some, but not all, of the Staff's criteria described in Order No. 7420. 6 The Company's Weather Normalization adjustment includes a fixed 7 Monthly Customer Charge that is not impacted by changes in weather 8 9 and therefore overstates the revenue impact. 10 Background 11 Q. Please summarize the Company's filing 12 13 Α. On September 18, 2009 the Company filed for an increase in base rates 14 of \$ 27.618 million. The filing included the required tariff sheets, a 15 CCCOSS, a proposed revenue allocation, a rate design in response to 16 directives in Order No. 7420 and Delaware law and the introduction of a 17 new Schedule TN (Telecommunications Network Service). 18 19 Cost of Service 20 Q. Has the Company provided a cost of service study? 21 22 Α. The Company provided a CCCOSS for the distribution cost function based 23 on the twelve month period ended March 31, 2009.² 24 25 Q. What is the purpose of a fully allocated cost of service study? 26 27 28 Α. Just as the rate case process studies each element of the Company's 29 operations to determine the overall cost to operate the Company efficiently

Delmarva at 3:11-17 (Morin Direct)

² Delmarva at 3:6-10 (Tanos Direct)

1		and effectively, a fully allocated cost of service study attempts to
2		determine the individual cost to serve each customer class. The fully
3		allocated cost of service study is intended to provide information to enable
4		the Commission to allocate revenue requirements among customer
		classes.
5		Classes.
6	0	What is the surities of maternal (GLDOD)
7	Q.	What is the unitized rate of return ("UROR")?
8	Á	
9	Α.	The UROR is the ratio of any class' rate of return to the rate of return of
10		the utility. It is a useful barometer of how well individual classes compare
11		to each other. The ideal situation would be for all customer classes to
12		closely approach a UROR of 1.0.
13		
14	Q.	How does a Commission use the cost of service study?
15		
16	A.	Because customer classes use the utility's systems on an interrelated or
17		shared basis, regulators have historically used a fully allocated cost of
18		service study as a guideline to allocate revenue among classes. In some
19		jurisdictions the regulators have established a "bandwidth" such as 0.90 to
20		1.10 for the UROR and consider rates that place any class within that
21		bandwidth to be reasonable in light of the decisions made when
22		developing a cost of service study. Additionally, when determining
23		revenue allocation, regulators have a responsibility to consider not only
24		the utility's financial condition and requirements, but also economic, social
25		and other factors that may affect customers.
26		
27	Q.	Are there limitations to a cost of service study?
28		
29	A.	Yes, a cost of service study involves judgment and decisions on the part
30		of the practitioner in making allocations among customer classes. In
31		some cases, decisions are made to use a particular allocation factor for a

1		particular account. In other cases, data used to develop an allocation
2		factor are not always complete and/or timely and the practitioner must
3		deal with the resulting uncertainty. Therefore, the cost of service study
4		acts as a guide to revenue allocation and can be used to assist rate
5		design.
6		
7	Q.	Are there other instances where the cost of service study may need
8		to be adjusted or act only as a guide?
9		
10	A.	Yes. Where the utility or other parties have proposed tariff and/or
11		operational changes that affect customer classes differently, some
12		mechanism is necessary to adjust the class UROR or account for the
13		effects of such changes before the final revenue increase is allocated.
14		
15	Q.	Have you reviewed the cost of service study presented by the
16		Company's witness Mr. Tanos?
17		
18	A.	Yes. The CCCOSS included as Schedule EPT-1 is a summary of the
19		results under present rates. Schedule EPT-2 is a summary of detailed
20		results that have been used for rate design purposes by Mr. Janocha and
21		are based on a claimed rate of return different from that requested by the
22		Company.
23		
24		The Company's CCCOSS includes a number of compromises or decisions
25		(which I will discuss below) that impair its use for revenue allocation and
26		rate design unless it is revised. I therefore only consider it as a point of
27		reference that offers limited guidance for revenue allocation and rate
28		design.
29		
30	Q.	What are some of the compromises within the Company's CCCOSS?
31		

The compromises in the CCCOSS I will identify address: (i) the adjusted Α. 1 2 test period data reflected in the study; (ii) the load data utilized; (iii) the loss study utilized; (iv) the treatment of weather normalized data; (v) post-3 filing corrections; (vi) the rate of return reflected; and (vii) the treatment of 4 5 service facilities to the customer. 6 Please discuss the test period data reflected in the CCCOSSS. 7 Q. 8 The Company's CCCOSS was developed for the twelve month period 9 Α. ending March 31, 2009. While this period is the same as the test year. 10 the Company did not update the CCCOSS to reflect the Company's 11 proposed test year adjustments.⁴ The resulting CCCOSS, therefore, does 12 not correspond to the adjusted revenue requirements proposed by the 13 Company for the period ending March 31, 2009. 14 15 Q. Please discuss the load data reflected in the CCCOSSS. 16 17 The Company's CCCOSS does not use load data for the residential Α. 18 classes that is specific and relevant to its Delaware service territory.⁵ The 19 Company used the "... average load factors for residential heating and 20 non-heating customer groups from the PEPCO Maryland continuous load 21 research program ...", but offered no evidence to support the transfer of 22 load data from one jurisdiction in one state to another jurisdiction in 23 24 another state. 25 In response to a Staff data request the Company provided only high level 26

27

comparison data (consisting of usage data) for each of the two service

³ Delmarva at 3:9 (Tanos Direct)

⁴ Response to Data Request PSC-COS-8 (VonSteuben)

⁵ Response to Data Request PSC-COS-32 (Tanos)

⁶ Delmarva at 9:16-17 (Tanos Direct)

1		territories. ⁷ The Company did not respond to the portions of the data
2		request seeking information such as customer density, customer income,
3		housing stock or appliance saturation. Customer income and housing
4		stock are key drivers of central air conditioning, which can be provided by
5		a heat pump. Without this information, the applicability of Maryland load
6		data to Delaware should be questioned. Furthermore, the CCCOSS uses
7		Delaware-specific load data for the non-residential classes, which creates
8		a mismatch of indeterminable magnitude. ⁸
9		
10	Q.	Please discuss the loss study reflected in the CCCOSSS.
11		
12	A.	The Company used a 1996 Analysis of System Losses to develop the
13		demand and energy data in the CCCOSS9. While utilities may use a loss
14		study that is somewhat out of date with the cost of service study, in this
15		case the Company is using a study that is over ten years behind the
16		current state of its distribution system, which, in my opinion, is excessive.
17		
18	Q.	Please discuss the treatment of weather normalized data reflected in
19		the CCCOSSS.
20		
21	A.	The CCCOSS is not weather-normalized and thus imbeds the impact of
22		test year weather into the CCCOSS and creates a bias between weather
23		sensitive and less or non-weather sensitive customer classes. 10
24		
25	Q.	Please discuss the post-filing corrections to the CCCOSSS.
26		
27	Α	As a result of the discovery process, the Company corrected items in the
28		CCCOSS such as "additional direct assignment of \$166,348" and a

⁷ Response to Data Request PSC-COS-57 (Tanos)

⁸ Delmarva at 9:5-19 (Tanos Direct)

⁹ Response to Data Request PSC-COS-4

¹⁰ Response to Data Request PSC-COS-29 (Tanos)

1		"slight change in class allocation factors that were used in the filed class
2		cost of service study" for Account 902 Meter Reading Expenses 12.
3		However, it did not update the CCCOSS to account for these corrections.
4		
5	Q.	Please discuss the rate of return reflected in the CCCOSSS.
6		
7	A.	The Company's CCCOSS uses a Claimed Return of 8.21%, 13 which it
8		defines as the "preliminary estimate of the requested overall rate of return
9		used in the cost study."14 However, the Company has requested an
10		overall rate of return of 7.97%. 15 Thus any component within the
11		CCCOSS (e.g., revenue requirement, unit cost for rate design, etc.) has
12		an inflated capital impact because of the mismatch in the claimed return
13		used in the Company's overall filing and the CCCOSS.
14		
15	Q.	Please discuss the treatment of service facilities to the customer
16		reflected in the CCCOSS.
17		
18	A.	Although the Company's "cost of service study classifies as customer-
19		related service conductors (service drops), meters, installations on
20		customer premises, and street light service assets,"16 the Company then
21		allocated these service drops using a demand-related allocator. 17
22		
23	Q.	Did your review of the CCCOSS and the Company's Schedules raise
24		specific concerns?
25		

¹¹ Response to Data Request PSC-COS-42 (Tanos)
12 Response to Data Request PSC-COS-44 (Tanos)
13 Schedule EPT-1, page 17-2, line 8 and Schedule EPT-2, page 6
14 Response to Data Request PSC-COS-2019 (Tanos)
15 Response to Data Request PSC-COS-1920 (Tanos)
16 Response to Data Request General 3c
17 Response to Data Request General 3c

1	A.	Yes, my review of the CCCOSS discovered that certain unit costs did not
2		appear consistent between the two residential rate classes. For the R
3		class the calculated value was \$15.53 and for the RSH class the
4		calculated value was \$16.90.
5		
6		Unless the Company has different design standards for RSH customers,
7		the service drop (the conductor leading from the street to the meter) and
8		other customer components of service provided for R and RSH customers
9		should be similar.
10		
11		I then reviewed the allocation of Account 369 – Services and determined
12		from Schedule EPT-1 page 25-2 that the assigned allocator was
13		CUST369 and is indicated as Class Max NCP.
14		
15		Although the Company's testimony stated that it had "retained the method
16		of allocating service assets based on Class MDD," 18 the Company's
17		response to a Staff data request indicated that "Based on available
18		information, the Company has not used the Class MDD allocation method
19		for service assets."19 The use of a Customer NCP (CUST369, excluding
20		lighting) is also confirmed in Schedule EPT-4.
21		
22	Q.	Is the use of a NCP allocator for Account 369 – Services unusual?
23		
24	A.	The January 1992 NARUC Electric Utility Cost Allocation Manual
25		("Manual"), which is recognized as a guide, suggests that Account 369 is a
26		customer-related cost. ²⁰ Professor Bonbright also suggests that "the
27		drop wire, metering and billing" are customer costs.21 Additionally,
28		generally speaking, the allocation of cost for service conductors on the
	18 _	

¹⁸ Delmarva at 11:13-14 (Tanos Direct)

19 Response to Data Request PSC-COS-40 (Tanos)

20 NARUC Electric Utility Cost Allocation Manual (January 1992) Table 6-1

21 Principles of Public Utility Rates, Bonbright et al, 2nd Edition, page 490

1	basis of demand indicates some benefit of diversity, which is not present
2	in conductors used as a service drop to a single customer.
3	
4	The Manual does recognize that " the choice of methodologies will
5	depend on the unique circumstances of each utility." ²² However, unless
6	there are specific requirements for services that are different between the
7	two residential subclasses, I would have expected the component to be
8	closer in value. It is my experience that modern specifications for
9	residential service drops are often consistent across most of a utility's
10	service territory.
11	
12	I did not find any differentiation between space heating and non-space
13	heating residential customers in my review of the Company's response to
14	a Staff data request covering Account 369 – Services. ²³ Nor did the
15	Company identify any difference in its standards for services in response
16	to a follow-up Staff data request. ²⁴ In response to yet another Staff data
17	request the Company did not identify any differences in calls per
18	customer, bad debt costs, metering equipment or larger services between
19	residential and residential space heating customers that would explain the
20	difference. ²⁵
21	

22

How were the residential Customer NCPs developed? Q.

23 24

25

Α. The Company has confirmed that it has not had any load surveys in place since January 1, 2001²⁶ and that the Customer NCP used in the CCCOSS

NARUC Electric Utility Cost Allocation Manual (January 1992) Page 22
Response to Data Request PSC-COS-10 (Tanos)
Response to Data Request PSC-COS-51 (Tanos)
Response to Data Request PSC-COS-52 (Tanos)
Response to Data Request PSC-COS-30 (Tanos)

1		for the residential classes was based upon PEPCO Maryland residential
2		heating and non-heating customer classes. ²⁷
3		
4	Q.	When do the residential class peaks that were used in the CCCOSS
5		occur?
6		
7	A.	The residential space heating class peak occurred on January 3, 2008 at
8		19:00 and the residential non-space heating class peak occurred on July
9		20, 2008 at 17:00. ²⁸
10		
11	Q.	What is the overall impact of using a customer allocator for Account
12		369 – Services as compared to using the Customer NCP CUST369
13		allocator?
14		•
15	A.	Generally speaking, the treatment of the cost for Account 369 – Service
16		on a Customer NCP basis with a recovery on a per customer basis in the
17		rate design results in a mismatch in the resulting customer charge
18		between cost responsibility and cost recovery.
19		
20		In response to a Staff data request the Company stated "[o]ther allocation
21		approaches such as weighted customer basis, are not available."
22		However, class customer count is available to the Company, 29 and in its
23		data request, Staff suggested alternatives such as allocation on a
24		customer or weighted customer basis.
25		
26		My examination of the Company's CCCOSS indicated that the Company
27		allocated \$3,716 and \$20,618 of Account 369 (Services) electric plant in
28		service to the newly proposed class for Telecommunication Network

Response to Data Request PSC-COS-32 (Tanos)
Response to Data Request PSC-General-3 (p) [EPT-1] (Tanos)
Response to Data Request PSC-COS-56 (Tanos)

1		Services ("TN"). ³⁰ However, in response to a Staff data request the
2		Company indicated that "the customer would be responsible for
3		providing the service drop."31
4		
5		Similarly, the Company allocated \$2,221,021 and \$12,322,584 of Account
6		369 (Services) electric plant in service to the General Service Secondary
7		Small class. ³² The General Service Secondary Large class was allocated
8		\$624,196 and \$3,463,142 of Account 369 (Services) electric plant in
9		service. ³³ However, in response to a Staff data request the Company
10		stated that "all overhead non-residential service drops shall be installed,
11		owned and maintained by the customer" and "[a]II underground non-
12		residential service drops, including those to new multi-metered locations
13		shall be installed, owned and maintained by the customer." While these
14		may be artifacts from prior Company policies, the allocation of Account
15		369 - Services does not appear to be consistent with Company policies or
16		cost of service principles.
17		
18	Q.	Is the CCCOSS useful for revenue allocation or rate design
19		purposes?
20		
21	A.	Based on the compromises detailed above, the CCCOSS offers only
22		limited information for revenue allocation and rate design.
23		
24	Q.	Can the CCCOSS be rehabilitated?
25		
26	Α.	On rebuttal the Company should be able to provide an updated cost of
27		service run allocating Account 369 on a customer basis consistent with
28		Company policies. The CCCOSS should be corrected to use the rate of
	30 Sc	hedule EPT-1, Page 2-2, lines 24-25
		· , · · · · · · · · · · · · · · · · · ·

³¹ Response to Data Request PSC-COS-54 (Tanos)
32 Schedule EPT-1, Page 2-2, lines 24-25
33 Schedule EPT-1, Page 2-2, lines 24-25

1		return requested in this case. The Company may be able to address other
2		compromises within the CCCOSS.
3		
4		I believe that a technical conference among Staff and the parties with a
5		focused agenda and information provided by the Company in advance of
6		the conference could remedy a number of the compromises.
7		
8	Q.	Do you have any further comments?
9		
10	A.	Yes. Rather than address cost of service issues in the context of
11		individual rate cases, including the compromises of such studies as I have
12		discussed here, I believe it would be more productive for all participants to
13		confer and develop a standardized, adaptable cost of service study model
14		to be used in future rate cases. This approach has been implemented in
15		Michigan and has greatly reduced the disputes among the parties to rate
16		cases involving cost of service issues.
17		
18	Reve	nue Allocation
19	Q.	What does the Company's CCCOSS demonstrate with regard to the
20		relative rates of return of the various classes?
21		
22	A.	Under the Company's CCCOSS' assumptions, the R, RSH, General
23		Services-Primary ("GS-P") and SL class each has a UROR below 1.0,
24		implying a return below the Company average. The other classes'
25		URORs are above 1.0, implying a return above the Company average.
26		None of the classes has a negative UROR, indicating that all classes
27		contribute a return.
28		
29	Q.	Assuming that the CCCOSS is rehabilitated, how should the total
30		revenue increase, if any is granted, be allocated?
31		

The revenue allocation proposed by Company witness Janocha appears 1 2 to have been driven by two primary considerations: Movement of all service classification URORs to 1.0 in a single rate 3 change would require significant shifts in allocation of revenue 5 requirements among service classifications and, consequently, would have large inter-class rate impacts. Therefore, customer 6 impact should be considered as a balancing factor in any effort to 7 achieve the goal of setting all service classification URORs at 8 unity.34 9 A general limitation that no service classification would experience 10 an increase of more than 150% of the overall distribution 11 percentage increase.35 12 13 Q. How do you suggest that the required revenue increase, if any is 14 15 granted, be allocated? 16 A. In general I support Mr. Janocha's principles but offer an additional 17 18 consideration. Schedule D (page 1 of 2) in the Company's application calculates the Proposed Distribution Revenue Increase and the Total 19 Proposed Revenue Increase. The Company meets its general limitation 20 of 150% for all classes when comparing the suggested distribution 21 22 revenue class increases to the average distribution revenue increase 23 (19.05%). However, the general limitation is not met when comparing the suggested total revenue increase for the lighting classes (18.57%) to the 24 25 average total revenue increase (4.00%). 26 Delmarva's affiliate in the District of Columbia uses a total revenue 27

28

increase as another measure of rate impact. 36 I support the use of this

³⁴ Delmarva at 5:7-12 (Janocha Direct)

Delmarva at 5:7 72 (canosina 5:1053)
 Delmarva at 5:14-16 (Janocha Direct)
 DC Formal Case No. 1076, Bumgarner Testimony 7:22-8:12

1		consideration in addition to the Company's measures to evaluate a
2		proposed rate increase.
3		
4	Q.	Using the several measures how would you change the Company's
5		proposed revenue allocation?
6		
7	A.	At this time, due to my concerns about the CCCOSS I do not support its
8		use for revenue allocation purposes. Absent the appropriate revisions to
9		the CCCOSS, I propose for this case that any allowed revenue increase
10		be allocated across the board based on distribution revenue, subject to
11		the revenue expected by the Company for Service Classification TN.
12		
13		My suggested target revenue allocation and the overall impact of my
14		suggested target revenue allocation are detailed in Exhibit HS-2. To allow
15		the parties to compare revenue allocation I use the same requested
16		revenue request as the Company. Obviously this is not an endorsement
17		of the Company's revenue request but is provided for illustrative purposes
18		
19		Should the CCCOSS be acceptably rehabilitated I will propose a revenue
20		allocation based upon the principles discussed above.
21		
22	Rate	Design
23		1. Service Classification TN
24	Q.	Have you reviewed the Company's proposed Service Classification
25		TN?
26		
27	A.	Yes. I support the establishment of this new service classification for "
28		essentially constant, highly predictable consumption levels, operating at
29		fairly high load factors." ³⁷ I further recommend that the Commission allow

³⁷ Delmarva at 14:20-21 (Janocha Direct)

1		governmental entitles to use this service classification for traffic signals at
2		their option.
3		
4	Q.	Why are you proposing to extend the Service Classification TN to
5		traffic signals?
6		
7	A.	Traffic signals are essentially constant (red, yellow or green), have
8		predictable consumption levels and operate at high load factors and
9		therefore meet the criteria for Service Classification TN. The Company
10		has indicated that its 1800 watt limitation is based upon the power
11		requirements of the amplification equipment for which the service
12		classification is intended. ³⁸ Because there is no rate design or distribution
13		system basis for the 1800 watt limitation, traffic signals will have no
14		adverse impact if served under Service Classification TN.
15		
16		At present traffic signals are served under Service Classification Outdoor
17		Lighting ("OL") and benefit from Standard Offer Service ("SOS") at a rate
18		of \$0.070845 per kWh, which is identical to the OL SOS rate. While traffic
19		signals have 24 hour per day usage that is both on and off peak, outdoor
20		lighting has a more off-peak character. If in the future SOS rates are
21		adjusted to remove this unexplained anomaly or competitive supply
22		becomes more prevalent, then the Service Classification TN may be more
23		appropriate for traffic signals and be available for them.
24		
25	Q.	Do you have other adjustments related to the TN Service
26		Classification?
27		

³⁸ Response to Data Request PSC-RD-48 (Janocha)

1	A.	Yes. Even though the Company states that customers in the TN Service
2		Classification are "appropriate candidates for unmetered service," 39 the
3		CCCOSS allocates \$161,336 of meter costs to the TN rate class ⁴⁰ .
4		·
5	Q.	Why did the Company allocate these meter costs to the TN class?
6		
7	A.	In response to Staff discovery, the Company stated that it allocated meter
8		costs to the TN class because those customers were previously served in
9		metered rate classes.41 Although an adjustment was made to the revenue
10		requirement for these meter costs prior to the calculation of the final
11		distribution rate, these meter costs will no longer be relevant and should
12		be properly allocated within the Company's CCCOSS.
13		
14		2. Revenue-Decoupled Rate Design
15	Q.	Has the Commission issued guidance on the form of future
16		distribution rates?
17		
18	A.	Yes. On September 16, 2008 the Delaware Public Service Commission
19		("Commission") issued Order No. 7420 ("Order"). This order concluded
20		that imposing surcharges for energy efficiency programs and revenue
21		deficiencies related to conservation efforts was not the preferred
22		approach, ⁴² and discussed:
23		Staff's recommendations regarding the potential adoption of a modified
24		fixed variable ("MFV") rate design for Delaware distribution utilities in
25		the context of a rate proceeding; ⁴³
26		The flexibility to address these rate design changes outside of a base
27		rate case if the situation is warranted;44 and

³⁹ Delmarva at 14:21-22 (Janocha Direct)
⁴⁰ Schedule EPT-1, page 2-2, line 26
⁴¹ Response to Data Request PSC-RD-15c (Janocha)
⁴² Order No. 7420 page 4
⁴³ Order No. 7420 page 5

1		 The approval of the diffusion of advanced metering technology into the
2		electric and natural gas distribution system networks and the
3		establishment of a regulatory asset for the technology subject to the
4		rate case process. ⁴⁵
5		
6	Q.	Please explain the concept of Staff's MFV rate design.
7		
8	A.	In the Findings and Recommendations of the Hearing Examiner
9		(Attachment A to the Order), the Hearing Examiner determined that the
10		Staff:
11		 Supported the concept of revenue decoupling for energy, using
12		alternate rate designs that collect more fixed costs through customer or
13		demand charges as part of a base rate proceeding.46
14		 Proposed a MFV method that would stratify rate classes to mitigate the
15		potential high cost impact on low-income customers resulting from a
16		change in rate design. ⁴⁷
17		 Asserted that the MFV rate design moves toward a rate design that
18		more appropriately aligns fixed costs with rates that comport with cost
19		causation principles. ⁴⁸
20		 Observed that the MFV rate design sends a proper price signal
21		regarding a customer's decision to engage in conservation and
22		reduces customer cross-subsidization. ⁴⁹
23		
24		The Order highlighted that Staff's modification of the fixed variable rate
25		design creates particular classes of customers to avoid rate
26		subsidization. ⁵⁰

<sup>Order No. 7420 page 5
Order No. 7420 page 5
Order No. 7420 Attachment A at 12
Order No. 7420 Attachment A at 13
Order No. 7420 Attachment A at 13
Order No. 7420 Attachment A at 13
Order No. 7420 Attachment A at 13</sup>

1		
2	Q.	Did the Staff suggest any criteria for the Commission to evaluate a
3		MFV rate design proposal?
4		
5	A.	Yes, those factors were listed in the Hearing Examiner's findings as: ⁵¹
6		Rate gradualism;
7		Customer equity;
8		 Impact on the Company's risk profile;
9		 Over/underearning protection; and
10		 Customer service and reliability protection.
11		
12	Q.	What are the positive aspects of a fixed variable rate design?
13		
14	A.	A fixed variable rate design better aligns costs and rates and reduces the
15		cross-subsidization of various usage levels within a rate class. The fixed
16		portion is designed to recover costs that are independent of demand or
17		volume, such as customer service, metering and the service line.
18		
19		For the utility, a fixed variable rate design provides better revenue stability
20		and more predictable earnings when compared to a volumetric rate.
21		Inherent in volumetric rates is the risk that weather will not be "normal,"
22		such as a warmer than normal heating season. A fixed variable rate
23		design also mitigates business risk. As the economy suffers customers
24		may reduce their consumption, which translates into a decrease in
25		volumetric usage and related revenues.
26		
27		For the customer, a fixed variable rate design provides better bill stability
28		when compared to a volumetric rate. Inherent in volumetric rates is the

⁵⁰ Order No. 7420 page 5 (footnote) ⁵¹ Order No. 7420 Attachment A at 14

1		risk that weather will not be "normal," such as a colder than normal
2		heating season.
3		
4	Q.	What are the negative aspects of a fixed variable rate design?
5		
6	A.	To the extent that a volumetric (usage) based rate design is replaced by a
7		fixed variable rate design, customers that have not been paying their full
8		cost of service will see an increase and customers in the opposite
9		situation will see a decrease. The rate impact on a particular customer
10		depends on the differences between the old volumetric-based rate and the
11		fixed variable rate proposed.
12		
13		Once a fixed variable rate design is in place the negative aspect is the
14		customer's perception of how the demand charge operates, because most
15		small customers have not yet been subjected to them. This perception
16		can become negative if the utility does not clearly define how the demand
17		charge is determined, when it will change and how the customer's
18		behavior (usage and conservation) affects the demand level. A utility-
19		provided customer education program that starts with the adoption of the
20		new fixed variable rate design and continues with each update of the
21		customer's demand level is crucial to obtaining customer understanding.
22		
23	Q.	Please summarize the Company's proposal for a fixed variable rate
24		design.
25		
26	A.	The Company is proposing to implement a modified straight fixed variable
27		("SFV") rate design for all Service Classifications except GS-T, OL and
28		ORL. ⁵²
29		

⁵² Delmarva at 8:7-9 (Janocha Direct)

1	Q.	How does the Company define the Distribution Demand Contribution
2		("DDC") and its calculation?
3		
4	A.	The Company defines the DDC as the Transmission Peak Load
5		Contribution ("PLC") that is kept fixed on a premise basis until new
6		distribution rates are approved in future rate cases. ⁵³ The Company's
7		approach achieves complete distribution revenue stability for current
8		customers considered in the rate design. ⁵⁴
9		
10		The actual definition from the proposed tariff sheet is:
11		
12 13 14		"Distribution Demand Contribution ("DDC") - The level of a customer's electric demand, measured in kilowatts for the customer's premise, for purposes of establishing the distribution
15 16 17		portion of the customer's bill when applied to the Distribution Demand Charge. The DDC shall be equal to the customer's Peak Load Contribution for Transmission in effect during the time frame
18 19 20 21		used to establish distribution rates. The DDC will remain fixed on a customer premise basis until changed as part of a distribution rate case."55
22		The words "in effect during the time frame used to establish distribution
23		rates" could be construed to mean the time period of a rate case from the
24		date of filing until new rates are determined. This construction might span
25		a period when the Transmission PLC has changed and thus the definition
26		of DDC may apply to two Transmission PLCs. Therefore, I suggest that
27		the definition of DDC be modified to reflect the premise's Transmission
28		PLC at the time that new distribution rates are filed by the Company in
29		response to a Commission rate order.
30		
31	Q.	What DDC will be assigned to a new home or business location that

32

was not previously supplied by the Company?

⁵³ Delmarva at 9:1-2 (Janocha Direct) 54 Delmarva at 9:3-4 (Janocha Direct)

1		·
2	A.	Neither the Company's rate design testimony nor its proposed tariff sheets
3		address this situation. The PHI Supplier Operating Manual (page 21)
4		indicates that new customers will be assigned a default value using class
5		average data until actual summer peak usage for the customer becomes
6		available. The Company does not indicate if a new premise will be
7		updated or be forced to use the default value after the following December
8		31 st .
9		
10		General service classes may have a wide variability between customers
11		and the use of a class default value for the period between rate cases may
12		under- or overcharge new customers.
13		
14		For any customer that engages in substantial energy efficiency or
15		conservation efforts such as installing new space conditioning or
16		manufacturing equipment, not changing the customer's DDC between rate
17		cases will detrimentally affect the customer's return on its investment.
18		
19	Q.	How is the Transmission PLC developed?
20		
21	A.	The Company defines the development of the Transmission PLC in the
22		PHI Supplier Operating Manual. ⁵⁶
23		
24		The Company has provided relevant information that relates the PLC to
25		summer usage in Schedule JFJ-5. This can be derived by an analysis of
26		the first two columns of Schedule JFJ-5. For R customers, the PLC is
27		approximately the customer's summer usage divided by 292.7.57 For RSH

Fourth Revised Leaf No. 5
 Response to Data Request DPA-RD-4 (Janocha)
 Schedule JFJ-5 pages 1-5

1		customers, the PLC is approximately the customer's summer usage
2		divided by approximately 269. ⁵⁸
3		
4	Q.	How does the DDC relate to the customer's actual demand on the
5		Company's distribution system?
6		
7	A.	The DDC is derived from the Transmission PLC and the PLC is based on
8		summer usage. ⁵⁹ Therefore the DDC is based upon the individual
9		customer's peak season usage. For summer peaking customers there
10		may be some relationship between the proposed DDC and a customer's
11		demand on the distribution system. For winter peaking customers such as
12		some RSH customers, there appears to be little relationship between
13		summer usage and the residential heating class peak that the Company
14		indicates occurred in January 2008. ⁶⁰
15		
16		At best the Company's proposal to establish the DDC is a transitional
17		measure because the Company has not completed its load research and
18		does not have individual customer demand readings for most customers.
19		
20		The Company does not explain why it has not proposed using demand
21		readings for those customers that have demand meters installed. For
22		example, the Company could set an existing demand-metered customer's
23		DDC as the highest demand reading in the twelve months prior to the filing
24		of new distribution rates. However, this would then create two separate
25		and potentially confusing definitions for the DDC at the transition to the
26		modified fixed variable rate design.
27		
28	Q.	How did the Company develop its proposed fixed variable rate
29		design?

⁵⁸ Schedule JFJ-5 pages 6-10 59 Also see Delmarva at 12:21-23 (Janocha)

1		
2	A.	The Company indicated that the development of the proposed new rates
3		is provided in Schedule JFJ-3. There is no other testimony defining the
4		process.
5		
6		It appears that the Company determined its revenue allocation in
7		Schedule JFJ-1. Then it used the CCCOSS results shown in JFJ-2 that
8		detail the relative customer-related % (row 6) and demand related % (row
9		7) to derive the proposed charges recovery (rows 10 and 11). The
10		respective customer and demand portions appear to be derived from
11		Schedule EPT-2 page 6 using the class DEMAND DISTRIBUTION and
12		the class CUSTOMER COMPONENTS. As I previously mentioned, since
13		EPT-2 uses a claimed rate of return in excess of that requested by the
14		Company in this case, the demand and customer components are
15		distorted. EPT-2 is further distorted by the other compromises in the
16		CCCOSS.
17		
18		The Company's Proposed Rates were derived through a direct calculation
19		in the spreadsheet, which produced Schedule JFJ-3. ⁶¹
20		
21	Q.	How did the Company estimate and review the bill impact of the
22		proposed fixed variable rate design?
23		
24	A.	Schedule JFJ-4 is a revenue-neutral analysis of the impact of the
25		proposed rate design on Residential Service Classification customers.
26		That analysis indicates that: (1) more than 8% of R customers would
27		experience an average overall monthly bill increase of over 10%, with an
28		average monthly increase of \$6.14; ⁶² and (2) more than 11% of RSH

Response to Data Request PSC-General-3 (p) [EPT-1] (Tanos)
Response to Data Request DPA-RD-5 (Janocha)
Schedule JFJ-2 page 2

1		customers would experience an average overall monthly increase of over
2		10%, with an average monthly increase of \$9.81.63
3		
4		The Company did not provide bill impact information for other service
5		classifications in a form similar to JFJ-4 in its testimony; however the
6		Company did provide such data in response to a Staff data request. 64
7		That analysis indicates that: (1) more than 29% of SGS Service
8		Classification customers would experience an average overall monthly
9		increase of over 10%, with a monthly average increase of \$8.48; (2) more
10		than 13% of MGS Service Classification customers would experience an
11		average overall monthly increase of over 10%, with a monthly average
12		increase of \$26.53; and (3) no LGS or GS-P Service Classification
13		customers would experience average overall monthly bill increases of over
14		10%.
15		
16		I am unable to replicate the Company's Schedules JFJ-4 & 5, as the full
17		operating combination of Access database and Excel worksheet has not
18		been provided. Nor am I able to use the Company model to estimate the
19		billing impact of alternative MFV rate designs on customers. Further,
20		although customer impact information was requested for a range of
21		potential MFV rate designs, the Company has not prepared similar
22		analyses for any alternative rate designs. 65
23		
24	Q.	Would the Company reconcile its distribution revenue between rate
25		cases?
26		
27	A.	No. The Company has not proposed any reconciliation of its distribution
28		revenue between rate cases. The combination of a fixed DDC for each
29		premise and fixed rates between rate cases would fix the Company's

⁶³ Schedule JFJ-2 page 2 64 Response to Data Request PSC-RD-13 (Janocha)

1		revenue per customer for the period between two rate filings. The
2		Company has not proposed any maximum period between rate cases or a
3		mandatory reopener for individual customer DDC values.
4		
5	Q.	Should the Commission consider limiting the effective term for a
6		customer's DDC?
7		
8	A.	Yes. Without a specific term or reopener the value of conservation and/or
9		energy efficiency to a customer is reduced. Also, the inequity of an
10		arbitrarily assigned DDC for a new home or premise continues until the
11		next rate case.
12		
13		The Company has decided to use a DDC that is derived from the
14		Transmission PLC. I previously discussed the problems with this in
15		relation to RSH customers. This may be a transitional stopgap until AMI is
16		fully implemented and all customers will have a demand reading, but the
17		Company has not specifically stated this.
18		
19	Q.	How does the Company propose to explain the proposed fixed
20		variable rate design to its customers?
21		
22	A.	The Company's testimony does not include any details regarding how it
23		plans to educate customers in the operation or impact of the proposed
24		rate structure. In response to a Staff data request, the Company stated
25		that it "anticipates that the customer education process on the new rate
26		design would include the use of its monthly customer newsletter, and a
27		detailed bill insert." ⁶⁶ The Company would also utilize its Speakers
28		Bureau.
29		

⁶⁵ Response to Data Request PSC-RD-52 (Janocha) ⁶⁶ Response to Data Request PSC-RD-33 (Janocha)

1 2	Q.	What is the history in number of electric distribution customers?
3	Α.	I have prepared Exhibit HS-3 from the Company's response to Data
4		Request PSC-RD-36. This exhibit plots the calendar year annual average
5		number of customers by class from the Company's data. The trend is
6		clear that except for the industrial class, the annual number of customers
7		has increased in every year.
8		•
9	Q.	What is the forecast for electric distribution customers?
0		
1		I prepared Exhibit HS-4 from the Company's response to Data Request
2		PSC-RD-37. This exhibit plots the Company's forecast. The Company-
3		supplied forecast demonstrates an increasing number of customers
4		(except for the industrial class) in the Company's view of the future.
5		
6	Q.	Have you analyzed the change in the revenue profile from the
7		existing two part (customer and volumetric) rate design as compared
8		to the proposed fixed variable (customer and demand) rate design?
9		
20	A.	Yes. I prepared Exhibit HS-5 to demonstrate the magnitude of the shift to
21		stable and predictable revenue as compared to the more risky volumetric
22		revenue that is subject to both weather and business risk. This exhibit
23		uses the same format, billing determinants and revenue as Schedule JFJ-
24		3 for both the residential and general service delivery rates. I added
25		several columns and computed the percentage of revenue that is fixed
26		between rate cases (that is, fixed for an annual (twelve month) period) and
27		the percentage that is subject to volumetric change with weather and/or
28		business conditions.
9		
80		As shown in Exhibit HS-5 (Column (4)), at present only 27% of the
1		residential revenue and 26% of the SGS revenue is fixed (per customer)

1		between rate cases. The remainder of the revenue is presently exposed
2		to volumetric risk. After the implementation of the proposed fixed variable
3		rate design, 100% of the Company's distribution revenue will be fixed on a
4		per customer basis and thus would increase on an absolute (forecasted)
5		basis.
6		
7	Q.	Have you analyzed the change in the MGS and LGS revenue profile
8		from the existing three part (customer, demand and volumetric) rate
9		design as compared to the proposed fixed variable (customer and
10		demand) rate design?
11		
12	A.	Yes. I prepared Exhibit HS-5 to demonstrate the magnitude of the shift to
13		stable and predictable revenue as compared to the more risky volumetric
14		revenue that is subject to both weather and business risk. The
15		Company's existing MGS and LGS rates presently have a customer and
16		demand charge format. However, unlike some utilities, there is no
17		demand ratchet to stabilize revenue over a period such as twelve months.
18		Thus, the proposed rate design eliminates the business risk of the present
19		demand rate design. This exhibit uses the same format, billing
20		determinants and revenue as Schedule JFJ-3 for the demand metered
21		general service delivery rates (MGS-S, LGS-S, GS-P and GS-T). I added
22		several columns and computed the percentage of revenue that is fixed
23		between rate cases and the percentage that is subject to volumetric
24		change with weather and/or business conditions.
25		
26		As shown in Exhibit HS-5 (Column (4)), at present only 18% of the
27		medium general service and 11% of the large general service revenue is
28		fixed (per customer) between rate cases. The remainder of the revenue is
29		presently exposed to variable (demand) risk. After the implementation of
30		the proposed fixed variable rate design, 100% of the Company's
31		distribution revenue will be fixed on a per customer basis.

1		
2	Q.	What is the net impact on revenue stability of the proposed fixed
3		variable rate design?
4		
5	A.	As shown in Exhibit HS-5 (Column (9)), upon the implementation of the
6		Company's proposed fixed variable rate design, 100% of the Company's
7		distribution service revenue is shifted to the stable customer and DDC
8		charges (fixed between rate cases). With the exception of the industrial
9		class, the number of customers that will be charged these rate
10		components has been and is forecasted to be increasing over time. 67
11		
12	Q.	Does the DDC concept have any effect on customer conservation?
13		
14	A.	The Company's proposed rate design does not adversely impact any
15		customer's incentive to conserve and/or make structural improvements to
16		its home or business. Any reduction in consumption is directly
17		accompanied by a reduction in the commodity charge. The commodity
18		charge represents, on average, approximately 79% of a customer's total
19		bill.
20		
21		However, the proposed rate design fixes the DDC between rate cases and
22		will delay the distribution portion of the conservation savings for the
23		change in usage by a customer.
24		
25	Q.	Does the Company retain the conservation risk?
26		
27	A.	No. Moving the distribution revenue recovery to the customer and DDC
28		charges eliminates the Company's conservation risk between rate cases.
29		

⁶⁷ Response to Data Request PSC-RD-36 and PSC-RD-37 (Janocha)

1 2 3		a. Analysis of the Company's Proposed Fixed Variable Rate Design
4	Q.	Does the Company's proposed fixed variable rate design satisfy
5		Staff's criteria for a rate design?
6		
7	A.	I will address each of Staff's criteria in turn.
8		Rate Gradualism Although the Company's revenue-neutral bill impact
9		and single point analyses found that 8.38% and 11.37% of R and RSH
10		customers respectively would experience an annual change in excess of
11		10%, ⁶⁸ the Company has not proposed any rate stoppers, phase-in or
12		other process to gradually introduce its proposed fixed variable rate
13		design for residential customers. However, it is reasonable to ignore the
14		concerns of customers receiving a rate decrease and focus on the
15		customers that receive an average \$6.14 and \$9.81 monthly increase
16		respectively.
17		
18		Unfortunately, the Company does not appear to have explored any other
19		proposals such as different customer charges (and the associated
20		revenue-neutral DDC) to provide all parties with information to evaluate
21		the impact on customers of the change to a fixed variable rate design. ⁶⁹
22		
23		Customer Equity The Company's use of both a Customer Charge and
24		a DDC charge tailors the fixed variable rate to the customer's usage, as
25		opposed to a one size fits all flat monthly or annual charge for delivery
26		service. However, the fixed DDC charge will provide a customer with a
27		delayed (to the next rate case) price response to its conservation or
28		operational changes.
29		

⁶⁸ Schedule JFJ-4
69 Response to Data Request PSC-RD-52 (Janocha)

1		Because each customer's bill is derived directly from its individual
2		demand, no customer's rates are impacted by the conservation efforts of
3		other customers between rate cases. This cross-subsidization of
4		customers unable or unwilling to implement conservation measures (such
5		as added insulation or new equipment) by customers that have the means
6		or inclination to conserve has been a criticism of decoupling adjustments
7		such as the Bill Stabilization Adjustment ("BSA").
8		
9		Impact on the Company's Risk Profile As detailed above, the
10		Company's risk profile is significantly enhanced by shifting all of the
11		volumetric-based revenue (with its inherent weather and business risk) to
12		the fixed and increased customer charge and the fixed demand (DDC)
13		component. The revenue per customer between rate cases is fixed.
14		
15		Over/UnderEarning Protection The Company's earnings are the
16		net result of its revenues and expenses. The proposed fixed variable rate
17		design will have little or no impact or change on the Company's expenses.
18		The proposed rate design will stabilize revenues and thus stabilize the
19		Company's earnings much better than a rate structure with 73-89% of the
20		revenue subject to volumetric risk.
21		
22		Customer Service and Reliability Protection The proposed rate
23		design should not impact the quality of the Company's customer service
24		and reliability performance, nor should the existing performance standards
25		be affected if a customer education program is implemented.
26		
27	Q.	What is your opinion of the Company's rate design proposal?
28		
29	A.	The Company's filing is incomplete. There are a number of issues left
30		unanswered.

Although Staff expressed concerns about the transition from the
existing volumetric rate design to a MFV rate design due to the initial
impact on low usage customers, the Company submitted only one
potential rate design and submitted only a single point (one customer
charge) bill impact analysis for residential and general service
customers.

- The Company has proposed only the delivery channels for, but not the content of, a customer education program to support the implementation of the proposed MFV rate design.
- There is no indication that the Company has considered the coordinated initial implementation of the proposed electric MFV rate design with the potential implementation of the proposed gas MFV rate design.⁷⁰
- The compromises in the CCCOSS also affect the calculation of the customer components and the customer-demand revenue ratio.

Most importantly, the Company's filing does not provide either the Commission or customers with any vision of where its proposed fixed variable rate design will go in the future.

Q. Why is a vision of the future important for customers?

A. As the Company's proposal is presently structured, there is only a small return on equity benefit to customers (25 basis points). Customers exchange rates based on total usage for rates based on a (summer) usage. Although the Company plans to install advanced metering for electric customers by the end of 2010,⁷¹ the Company's filing is devoid of any indication or promise of benefits for its electric customers as a result of this rate design.

⁷⁰ Response to Data Request PSC-RD-45 (Janocha)

⁷¹ Response to Data Request PSC-RD-51

1		·	
2	Recommendations		
3	Rate Impact		
4	Q.	Should the Company provide additional information on the rate	
5		impact of its proposed fixed variable rate design?	
6			
7	A.	Yes. The Company can consider other revenue-neutral rate designs (by	
8		rate class) to determine if a different mix of the customer charge and DDC	
9		would better minimize the bill impact.	
10			
11		If the Company does not provide the information needed to evaluate the	
12		impact of the proposed rate design on both residential and general service	
13		customers, I suggest that the Commission institute a "rate cap" to protect	
14		customers from the Company's incomplete rate research. For a period	
15		after implementation (one to two years), the Company would cap the	
16		impact of its proposed rate design at a fixed dollar per bill limit (or a	
17		specific maximum percentage increase). Any customer whose bill under	
18		the new rate design exceeds the previous volumetric cost bill by more	
19		than the fixed dollar limit would pay only the fixed limit amount. The lost	
20		revenue would provide an incentive for the Company to provide adequate	
21		rate research in future cases.	
22			
23	Customer Communications and Education		
24	Q.	Should the Company be ordered to develop a customer education	
25		and communications program to prepare for the implementation of	
26		the MFV rate design?	
27			
28	A.	Yes. As a recent series of articles and the associated comments	
29		indicate, ⁷² there is a real possibility that customers are misunderstanding	
30		and will continue to misunderstand the change from the existing	

⁷² http://www.delawareonline.com/apps/pbcs.dll/article?AID=2009909280325

1		volumetric based rate design to the MFV rate design. Customers will be
2		challenged by the DDC concept and will properly wonder if it will reduce
3		their incentive to conserve and make energy efficiency improvements.
4		
5		As noted previously, the Company has provided no details about any
6		proposed customer education process. The Commission should order the
7		Company to collaborate with Staff and the Division of the Public Advocate
8		to prepare a customer education and communications program (much as
9		it is doing in Docket No. 09-277T, the gas revenue decoupling docket). 73
10		
11		The Company should use (at a minimum) bill inserts, newspaper
12		advertisements and its website as printed methods of customer
13		communication. Further, its customer service representatives should
14		receive training to address customers' questions about the new rate
15		design. Additionally, the Company should consider outreach to other
16		organizations and energy efficiency and conservation seminars to provide
17		verbal communications.
18		•
19		The Commission should keep in mind the impact on its internal customer
20		service operations of a change in rate design. If the Company fails to
21		execute a customer education program effectively, then many customers
22		will seek information from the Commission and potentially overload its
23		resources.
24		
25	Imple	mentation of the MFV Rate Design
26	Q.	When do you recommend that the new rates be implemented?
27		
28	A.	To avoid customer confusion for combination electric and gas customers, I
29		recommend that the Commission order the Company to plan to implement
30		its gas MFV rate design simultaneously with the electric MFV rate design.

⁷³ Response to (Docket No. 09-277T) Data Request PSC Staff 1-5 (Janocha)

1		
2	Calc	ulation of Customer Costs
3	Q.	If the Company's calculation of customer costs is compromised by
4		the existing CCCOSS, how can the MFV rate design be completed?
5		
6	A.	I am optimistic that the Company can rehabilitate the CCCOSS and
7		remove a number of the compromises such that the revised customer
8		costs can be used to analyze and then calculate the MFV rate design.
9		
10	Busi	ness Risk Reduction
11	Q.	When revenue stabilization is implemented have other regulators
12		recognized the effect of increased stability?
13		
14	A.	Two decisions are on point.
15		On July 19, 2007 the Maryland PSC implemented PEPCO's request for a
16		BSA for electric service. 74 This implementation was accompanied by a
17		reduction in the company's ROE.
18		
19		On September 28, 2009 the District of Columbia PSC implemented
20		PEPCO's request for a BSA for electric service. This implementation
21		was accompanied by a reduction in the company's ROE. The PSC's
22		order provides the range of the ROE reduction that the various parties
23		suggested during that case.
24		
25	Q.	Is the proposed fixed variable rate design in this proceeding
26		comparable to a BSA?
27	_	
28	A.	A BSA as previously proposed by the Company and its affiliates "locks"
29		the revenue per customer between rate cases. The utility also retains any

⁷⁴ MD PSC Order No. 81517 at page 81 ⁷⁵ DC PSC Order No. 15556 at 29

1		new revenue due to growth in the number of customers during that period.
2		Any change in usage per customer is adjusted away by the BSA. Thus
3		the revenue per customer is very stable.
4		
5		The BSA, as implemented by the Company's affiliate PEPCO, includes a
6		cap on the increase or reduction of monthly revenue per customer at a
7		level of 10%. Under this cap it is possible that the utility would not see all
8		of the revenue it has lost in a month recouped for two or more months,
9		creating a revenue lag. The Company's proposed fixed variable rate
10		design in this proceeding does not include any lag in revenue collection
11		because it is a fixed rate structure, not an adjustment mechanism.
12		
13		The Company's proposed rate design shifts all of the revenue associated
14		with volumetric sales to either a higher customer or DDC charges that are
15		fixed between rate cases. Under the proposed rate design the Company
16		will retain any new revenue due to the growth in the number of customers.
17		The Company's proposal is preferable from its standpoint compared to the
18		BSA.
19		
20	Q.	How do you recommend that the Commission recognize the value of
21		the reduction in business risk of the proposed MFV rate design?
22		
23	A.	The proposed rate design in this proceeding offers the Company almost
24		completely stable revenue compared to the existing rate structure. It also
25		preserves the Company's opportunity to profit from its forecasted
26		increases in the number of customers. It stabilizes revenue by employing
27		the DDC charge as a form of a demand ratchet with a term equal to the
28		period between rate cases. The proposed rate design does not include
29		any caps and does not delay the recovery of revenue.
30		

1		Therefore I suggest that if the proposed rate design is implemented, the
2		Company's ROE for the classes affected should be reduced concurrent
3		with that change. A similar situation occurred in the recent implementation
4		of a BSA for PEPCO in the District of Columbia. In that case the
5		Commission ordered that the ROE reduction be implemented based on
6		the associated class rate base. ⁷⁶
7		
8	Custo	omer Benefits
9	Q.	Should the Company articulate the benefits to its customers of the
10		proposed fixed variable rate design and other Company initiatives?
11		
12	A.	Yes. The Company should articulate its vision of the future and detail the
13		benefits for its customers from advanced metering and the proposed fixed
14		variable rate design. This vision should not focus solely on the
15		intermediate step of the proposed fixed variable DDC rate, but should also
16		demonstrate the long-term benefits to customers of a series of changes
17		and innovation.
18		
19		For example, when advanced metering is in place does the Company
20		intend to move the DDC calculation from the PLC to a few critical service
21		days or to the distribution peak load that the customer places on the
22		distribution system regardless of seasonality? If so, this concept may
23		allow the Company to influence the customer's impact on the distribution
24		system.
25		
26	Follow	v-on Implementation
27	Q.	Should the Commission require a reopener of the proposed rate
28		design?
29		

⁷⁶ DC PSC Order No. 15556 at 31

1	A.	Yes. The Company plans to complete its implementation of AMI by
2		December 2010. ⁷⁷ According to that schedule approximately 50% of the
3		AMI meters should be in place and delivering data for twelve months by
4		some point in 2011. At that point the Company should convene a
5		technical conference to share the available distribution load data with
6		interested parties. Such information would include the annual and
7		monthly peaks of each class, when they occur and the comparison
8		between the class peak profile and the Transmission PLC. At some point
9		thereafter, the Commission should consider requiring the Company to file
10		a new case to examine the reasonableness of the continued use of the
11		Transmission PLC as the value of DDC.
12		
13	Weat	ther Normalization Adjustment #1
14	Q.	Please describe the Company's Weather Normalization Adjustment
15		#1.
16		
17	A.	The Company has proposed an adjustment to restate its distribution sales
18		to reflect normal weather conditions for the test period. The Company
19		argues that actual test period sales are 176,433 MWh above normal
20		weather. ⁷⁸
21		
22		Schedule WMV-3 Adjustment 1 calculates the value of this adjustment for
23		distribution revenue. The supporting workpaper for the adjustment
24		calculates the revenue impact for each rate class by first dividing the
25		Booked (Distribution) Revenue (line 4) by the Delivered Sales (line 1) and
26		then calls the result Average Rates – Distribution (line 11).
27		

⁷⁷ Response to Data Request PSC-RD-51
78 Delmarva at 11:20-12-20 (VonStueben Direct)

1		Average Rates - Distribution are shown as 3.20, 2.43 and 1.54
2		respectively for the R, RSH and COM classes. There is no adjustment
3		calculated for the IND and SL classes as they are not weather-sensitive.
4		
5		The supporting workpaper then multiplies the Weather Corrected
6		Delivered Sales (line 15) by the Average Rates – Distribution (line 11) to
7		develop the Weather Corrected Revenue - Distribution (line 18). Finally,
8		the Weather Corrected Revenue - Distribution (line 18) is subtracted from
9		the Booked Revenue – Distribution (line 4) to generate the Company's
10		adjustment Variance From Booked Revenue - Distribution (line 25).
11		
12	Q.	Is the Company's methodology to calculate the Weather
13		Normalization Adjustment appropriate?
14		
15	A.	No. The Company uses its Booked Revenues, which include both the
16		Monthly Customer Charge and the Distribution Energy Rate, 79 to develop
17		its Average Rate - Distribution for R and RSH customers. COM
18		customers are served under rates that include the Monthly Customer
19		Charge and may include a Distribution Energy Rate and/or a Distribution
20		Demand rate.80 Under all weather conditions R and RSH customers will
21		pay the Monthly Customer Charge at any usage level.
22		
23		The correct method to calculate the Weather Normalization adjustment is
24		to use only the Distribution Energy Rate, which is the marginal energy
25		cost.
26		
27	Q.	Have you recalculated the Weather Normalization Adjustment using
28		the correct marginal energy cost?
29		

⁷⁹ Schedule JFJ-3 page 1 ⁸⁰ Schedule JFJ-3 pages 3-10

1	A.	Yes. As shown in Exhibit HS-6, I have recalculated the Variance From
2		Booked Revenue by multiplying the difference between Delivered Sales
3		(line 1) and Weather Corrected Delivered Sales (line 15) by the
4		Distribution Energy Rate for R and RSH (line 35)81 to calculate the correct
5		weather normalization adjustment (line 38) for the R and RSH classes.
6		
7		The Company's supporting workpaper does not define which rate classes
8		contribute to the COM class and therefore the marginal energy cost
9		cannot be used. Absent further information from the Company I suggest
0		that Staff revenue requirements witness Mullinax develop a ratio to adjust
1		the approximate value of the COM class' Weather Normalization
2		Adjustment.
3		
4	Q.	Does this conclude your testimony?
5		
6	Α.	Yes.

⁸¹ Schedule JFJ-3 page 1

Docket No. 09-414 Witness: Howard Solganick

Exhibit: HS-1

Testimony - Howard Solganick

Public Service Commission of Delaware

Case - Delmarva Power & Light Company Docket No. 09-277T (November 2009)

Client - Staff of the Delaware Public Service Commission

Scope - Testimony covered an analysis of a straight fixed variable rate design for small gas customers and implementation issues.

Case - Delmarva Power & Light Company Docket No. 06-284 (January 2007)

Client - Staff of the Delaware Public Service Commission

Scope - Testimony covered cost of service, revenue allocation, rate design and other related issues including revenue stabilization or normalization.

Georgia Public Service Commission

Case – Atmos Energy Corporation Docket No. 27163 (July 2008)

Client – Public Interest Advocacy Staff of the Georgia Public Service Commission

Scope - Testimony covered rate design and other related issues.

Jamaica (West Indies) Office of Utility Regulation

Case - Electricity Appeals Tribunal (August 2007)

Client - Jamaica public Service Company, Ltd.

Scope - "Witness Statement" on behalf of the Jamaica Public Service Company

Limited. This Statement covered issues relating to recovery of expenses incurred due to Hurricane Ivan.

Maine Public Utilities Commission

Case - Northern Utilities, Accelerated Cast Iron Replacement Program Docket No. 2005-813 (2005)

Client - Public Advocate of the State of Maine

Scope - Testimony covered an analysis of the program's economics and implementation.

Public Service Commission of Maryland

Case - Chesapeake Utilities Corporation Case No. 9062 (August 2006)

Client - Office of the Maryland People's Counsel

Scope - Testimony covered cost of service, rate design and other related issues.

Case - Baltimore Gas & Electric's (1993)

Client - As president of the Mid Atlantic Independent Power Producers

Scope - Testimony covered BG&E's capacity procurement plans.

Docket No. 09-414 Witness: Howard Solganick

Exhibit: HS-1

Michigan Public Service Commission

Case - Consumers Energy Company Case No. U-15245 (November 2007)

Client - Attorney General Michael A. Cox (Don Erickson, Esq.)

Scope - Testimony covered cost of service, rate design and revenue allocation.

Case - Consumers Energy Company Case No. U-15190 (July 2007)

Client - Attorney General Michael A. Cox (Don Erickson, Esg.)

Scope - Testimony covered issues related to Consumers Energy's gas revenue decoupling proposal.

Case - Consumers Energy Company Case No. U-15001 (June 2007)

Client - Attorney General Michael A. Cox (Don Erickson, Esq.)

Scope - Testimony covered issues related to Consumers Energy and the MCV Partnership.

Case - Consumers Energy Company Case No. U-14981 (September 2006)

Client - Attorney General Michael A. Cox (Don Erickson, Esq.)

Scope - Testimony covered issues relating to the sale of Consumers interest in the Midland Cogeneration Venture.

Case - Consumers Energy Company Case No. U-14347 (June 2005)

Client - Attorney General Michael A. Cox (Don Erickson, Esq.)

Scope – Testimony covered cost of service and revenue allocation.

Missouri Public Service Commission

Case – AmerenUE Storm Adequacy Review (July 2008)

Client - KEMA/AmerenUE

Scope – Oral testimony covered KEMA's review of AmerenUE's system major storm restoration efforts.

New Jersey Board of Public Utilities

Case - Cogeneration and Alternate Energy Docket # 8010-687 (1981)

Case - PURPA Rate Design and Lifeline Docket # 8010-687 (1981)

Case - Atlantic Electric Rate Case - Phases I & II Docket # 822-116 (1982)

Case - Power Supply Contract Litigation — Wilmington Thermal Systems Docket # 2755-89 (1989)

Case - NJBPU Atlantic Electric Rate Case - Phase II (1980-81) Docket # 7911-

951 (Before the Commissioners of the New Jersey Board of Public Utilities)

Client - Employer was Atlantic City Electric Company.

Scope - The cases listed above covered load forecasting, capacity planning, load research, cost of service, rate design and power procurement.

Docket No. 09-414 Witness: Howard Solganick Exhibit: HS-1

Public Utilities Commission of Ohio

Case - The Application of Ohio Edison Company, The Cleveland Electric Illuminating Company, and The Toledo Edison Company Case 07-551-EL-AIR (January 2008)

Client - Ohio Schools Council

Scope - Testimony covers issues related to rate treatment of schools.

Case - The Application of the Columbus Southern Power Company 08-917-EL-SSO and the Ohio Power Company Case 08-918-EL-SSO (October 2008) Client - Ohio Hospital Association

Scope - Testimony covers issues related to rates for net metering and alternate feed service and related treatment of hospitals.

Pennsylvania Public Utilities Commission

Case - York Water Company Docket No. R-00061322 (July 2006)

Client - Pennsylvania Office of Consumer Advocate

Subject - Testimony covered cost of service, rate design and other related issues, also supported the settlement process.

Case – Pennsylvania- American Water Company Docket No. R-2008-232689 (August 2008)

Client - Municipal Sewer Group

Subject - Testimony covered cost of service, rate design, capacity fee and other related issues, also supported the settlement process.

Public Utilities Commission of Texas

Case – Determination of Hurricane Restoration Costs Docket No. 36918 (April 2009)

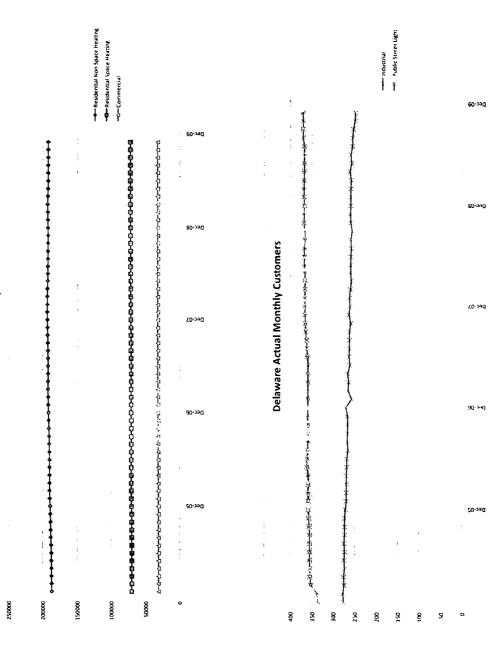
Client - CenterPoint Energy Houston Electric, LLC

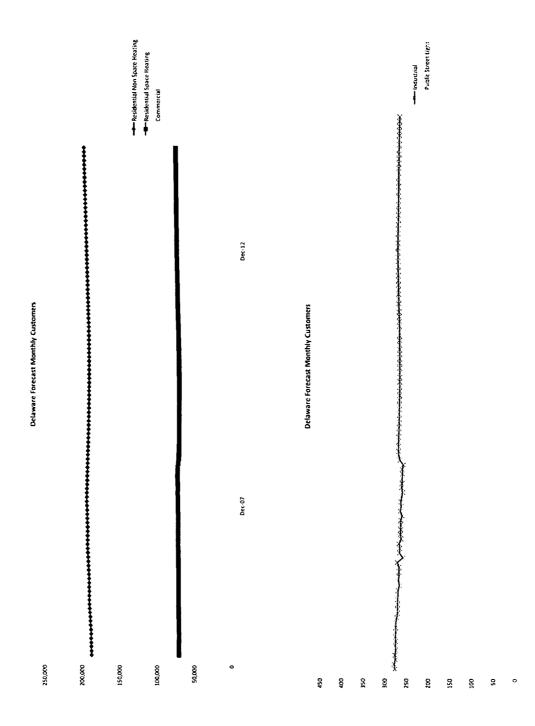
Subject – Testimony covered the reasonableness of the client's Hurricane Ike restoration process for an outage covering over two million customers and a restoration period of 18 days.

Delmarva Power & Light Company · Delaware Summary of Proposed Revenue Increase Using Twetve Months Ending March 2009 Data

			Total	Distribtion	DPL Proposed	STAFF Proposed	STAFF VS	STAFF Total	DPL Total	STAFF Proposed	DPL Proposed	STAFF Proposed	DPL Proposed
		Booked Total	Booked Revenue	Booked Revenue Subject to	Distribution Revenue	Distribution Revenue	DPL Revenue	Proposed Distribution	Proposed Distribution	TOTAL Revenue	TOTAL Revenue	Distribution Revenue	Distribution Revenue
	Rate Scheduli	Delivery Sales kWh	w/o Tax \$	Increase \$	Increase \$	Increase S	Increase S	W/O Tax	W/O Tax	Increase (%)	Increase (%)	Increase (%)	Increase (%)
- 0	Res	1,914,001,876	279,797,247	61,015.414	12,683,503	11,602,910	-1,080,593	291,400,157	292,480,751	4.15%	4.53%	19.02%	20.79%
, e.	Residential To	2,960,701,400	1	86,435,145	18,747,792	16,436,817	-2.310,974	433,417,834	435,728,809	3.94%	4.50%	19.02%	21.69%
4 10 1	SGS-S	141,837,997	22.130,241	6.934,972	496,567	1,318,779	822,212	23,449,020	22,626,808	5.96%	2.24%	19.02%	7.16%
0 ~ 0	MGS-S	1,143,928,118	122,851,185	21,131,614	1,543,936	4,018.464	2,474,528	126,869,649	124,395,121	3.27%	1.26%	19.02%	7.31%
φ φ ξ	GS-SH	26.818,060	3.011.704	399.654	32,400	76,000	43.600	3,087,703	3,044,104	2.52%	1.08%	19.02%	8.11%
5 = 5	GS-WH	839,424	89,373	13,402	1,271	2,548	1,278	91,921	90,643	2.85%	1.42%	19.02%	9.48%
5 5 5	Ę	N/A	N/A	N/A	53,346	53,346	0	53,346	53,346	N/A	N/A	N/A	N/A
<u> </u>	ORL	594,906	61.292	17.539	4,936	3,335	-1.601	64,627	66,228	5.44%	8.05%	19.02%	28.15%
2 12 9	เดระร	614,768,699	37,946,441	5,825,565	1,155,695	1,107,810	47,884	39.054.252	39,102,136	2.92%	3.05%	19.02%	19.84%
<u> </u>	GS-P	2,592,551,342	48,930,154	16.336,108	3,854,346	3,106,533	.747.813	52,036,687	52.784,499	6.35%	7.88%	19.02%	23.59%
22.8	GS-T	1,166,162,127	27.620,841	778,820	-265,317	148,103	413,420	27,768,944	27,355,524	0.54%	4 96%	N/A	-0.96%
3 23 2	ا ا	51,564,945	10,736,205	7,082,063	1,993,515	1,346,751	-646.765	12,082,956	12,729,720	12.54%	18.57%	19.02%	28.15%
25 %	Total	8,699,767,018	690,358.452	144,954,882	27,618,487	27,618,487	0	717,976,939 717,976,939	717,976,939	4.00%	4.00%	19.05%	19.05%
23 23			_	TN direct Net to Allocate	53.346 27.565,141								

Delaware Actual Monthly Customers





Docket No: 09-414 Witness: Howard Solganick Exhibit: HS-5 Page 1 of 3

		Exis	Existing Rate Design	5.	Existing Rate Design	te Design	Pro	Proposed Rate Design	sign	Proposed Rate Design	ste Design
		Billing Doterminants	Existing Rate	Existing Rewnue	Customer Focused Fixed	Externally Influenced Volumetric	Băling Determinants	Proposed Rate	Proposed Roverue	Customer/Dmd Focused Fixed	Externally Influenced Volumetric
		-	7	e	4	s,	Ģ	,	₩	ø	01
	Residential ("R")										
4 64 4	Defivery Service Monthly Customer Charge	2,312,552	7 36	7.36 \$ 17,020,383	19.71%		2,312,552	17.03708111	17.03708111 \$ 39.399,136	37,48%	
n up r	Distribution Energy Rate	1,912,826,635	0.023009	0.023009 \$ 44,007,625		50.90%					
~ es c	Distribution Demand Contribution Rate						7,919,201	4,33174	4,33174 \$ 34,303,921	32.64%	
» º :	Total Dalivery Service			\$ 61,028,009					\$ 73,703,057		
- 2 :	Residential Space Heating ("RSH")										
3 4 75 7	Delivery Service Monthly Customer Charge	858,147	8 /	7.30 \$ 6,389.562	7.40%	-	868,147	18.15603809	18.15603809 \$ 15.762,110	15.00%	
2 2 9	Distribution Energy Rate	1,045,458.054	0.018066	0.018066 \$ 18,905,853		21.89%					
5 to 5	Distribution Demand Contribution Rate						2,947,691	5.29146	5.29146 \$ 15,597,592	14.84%	
2 %	Total Delivery Service		-	\$ 25,295,415					\$ 31,359,702		
ឧឧ	Residential Time of Use Non-Demand ("RTOU-ND")	(-01+1									
2 12 2	Distribution Functional Revenue Requirements	49.168									
6 2 8 8	Proposed Customer Charge Recovery Proosed Demand/Energy Charge Recovery	26.283									
₹ 8 3	Monthly Customer Charge	1,463 \$	11.32	\$ 16.561	0.02%		1,499 \$	\$ 17.53 \$	\$ 26.283	0.03%	
8888	Distribution Energy Rate On-Peak Off-Peak	465,276 \$ 1,086.952 \$	0.039524	\$ 18,390 \$ 4,703		0.02% 0.01%					
888	Distribution Demand Contribution Rate						6.930	\$ 3.858884 \$	\$ 22,885	0.02%	
* % %	Total Defivery Service			\$ 39,654					\$ 49,168		
4 5 1	R-TOU										
2 4 4	Delivery Sarvice Monthly Customer Charge	s	11.32	\$ 408	%00'0						
\$ 9	Distribution										
42		91 \$	3.916711	\$ 184 \$ 356		0.00% 0.00%					
£ 8 :	Destribution Energy Rate	34,463 \$	0.003181	\$ 110		0.00%					
. 23 2	Distribution Demand Contribution Rate										
3 12 2	Total Delivery Service		•	\$ 1058							
8	56 Total Residential Delivery Service Revenue		•	\$ 86,364,136	27.13%	72.87%			\$105,111,926	100.00%	0.00%

Docket No: 09-414 Witness: Howard Solganick Exhibit: HS-5 Page 2 of 3

	Exist	Existing Rate Design		Existing Rate Design	Dosign	Prop	Proposed Rate Design	£	Proposed Rale Design	rle Dosign
	Billing Determinants	Existing Rate	Existing Revenue	Customer Focused Fixed	Externally Influenced Volumetric	Báling Determinants	Proposed Rate	C. Proposed Revenue	Custamer/Dmd Focused Fixed	Externally influenced Volumetric
57		~	m	₹	r,	9	7	s >	on.	01
58 59 Small General Service - Non Demand ("SGS-ND")	CGN-ND-1									
61 Monthly Customer Charge	219,139 \$		8.36 \$ 1,832,002	25.22%		205,159	\$ 13.30	\$ 2,728,740	33.65%	
0.2 0.3 Distribution Energy Rate	141,837,997 \$	0.035037 \$ 4.969,578	4.969,578		88.43%					
e4 65 Distribution Deniand Contribution Rate						424,051	424,051 \$ 10,775354	\$ 4,589,407	56.35%	
68 67 Total Delivery Service		100	\$ 6,801,580				1	\$ 7,298,147		
58 69 General Service Space Heating ("GS-SH") 70	c									
71 Minimum Charge	9.922 \$	4.99 \$	115.61	0.63%		9,922 \$	5.35	\$ 53,125	7,990	
7.2 Distribution Energy Rate	26,818,060 \$	0.014702 \$	394,279		5.43%					
75 Distribution Demand Contribution Rate						63,726	\$ 6,638907	\$ 423,064	5.22%	
76 77 Total Delivery Service		160	\$ 443,790				100	\$ 476.190		
78 General Service Water Heating ("GS-WH")	E									
81 Minimum Charge	1,015 \$	4.99 \$	5.065	0.07%		1,015 \$	5.35	\$ 5.435	0.07%	
63 Distribution Energy Rate	839,424 \$	0.014702 \$	12,341		0 17%					
55 Distribution Demand Contribution Rate						1,599 \$	\$ 8.281075	\$ 13,242	0.16%	
67 Total Delivery Service		s	\$ 17,405				1	\$ 18.677		
89 Telcommunications Network Service ("TN")	'N')									
91 Monthly Customer Charge	17.136 \$		•	%00'0		17,136 \$	15.81	\$ 270.920	3.34%	
93 Distribution Energy Rate	6,930,002 \$,			0.00%	6.930,002 \$	0.006538	\$ 45,308	%95.0	
95 Total Delivery Service		S					1**	\$ 316.229		
		ļ					1			
98 Total Small General Delivery Service 99		'n	\$ 7,262,776	25.98%	74 02%		••	\$ 8,109,242	100.00%	*.00·0
101 102										
50.5										
2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5										
Of Medium General Service - Secondary ("MGS-S")	MGS-5")									
109 Monthly Customer Charge 110	152,707 \$	25.42 \$	25.42 \$ 3,881,812	18 36%		149,551 \$	56.73	\$ 8,494,257	37,39%	
11. Distribution Demand	3,901,117 \$	3.654078 \$ 14,254,987	14,254,987		\$14.76					
113 Distribution Energy Rate	1,143,928,118 \$	0.002632	\$ 3,010,819		1.1 24%					
115 Distribution Demand Contribution Rate						3,432,812 \$	3,432,812 \$ 4,138676 \$ 14,207,298	14,207,298	62.61%	
117 Total Medium General Delivery Service		ļ _v	\$ 21,147,615	18.36%	81.64%		۱۳,	\$ 22.691.555	100.00%	0.00%

Docket No: 09-414 Witness: Howard Solganick Exhibit: HS-5 Page 3 of 3

	Exist	Existing Rate Design	_	Existing Rate Design	e Design	Pro	Proposed Rate Design	uths	Proposed Rale Design	ale Design
	Biling Determinants	Existing Rate	Existing Revenue	Customer Focused Fired	Externally Influenced Volumetric	Balling Determinants	Proposed Rate	Proposed Revenue	Customor/Omd Focused Fixed	Externally influenced Volumetric
	-	7	6	٩	ĸ	ω	7	æ	σ	01
118			,					,	,	:
119 120 Large Gerneral Service - Secondary ("LG	38-S")									
121										
122 Monthly Customer Charge	4,819 \$	159.62 \$	769.209	3.37%		4,819 \$		235.14 \$ 1,133,158	4.11%	
123										
124 Distribution Demend	1,552,950 \$	1,552,950 \$ 2,407000 \$ 3,737,951	3,737,951		16.37%					
125										
126 Distribution Energy Rate	614,756,699 \$ 0.002120 \$ 1,303,310	0.002120	1,303,310		5.71%					
127										
128 Distribution Demand Contribution Rate						369,226	\$ 4.260077	1,369,226 \$ 4,260077 \$ 5,833,007	21,15%	
129										
130 Total Large General Service			\$ 5,810,470					\$ 6,966,165		
131										
132										
133 General Service Primary ("GS-P")										
134										
135 Monthly Customer Charge	6,149 \$		235.42 \$ 1,447,595	6.34%		6,149 \$		858.46 \$ 4,048,858	14.68%	
136										
137 Distribution Domand	5,720,121 \$	5,720,121 \$ 2,624797 \$ 15,014,156	15,014,156		65.75%					
138										
139 Distribution Demand Contribution Rate						5,468,259	\$ 2.974849	5,468,259 \$ 2,974849 \$ 16,267,244	58.93%	
140		ľ								
141 Total General Service Primary		•	5 16,461,754					\$ 20,316,102		
142										
ma 40m i i man j										
145										
146 Monthly Customer Charne	\$ 801	2 770 31	205 789	1 20%		3(18)	2 275823 €	207 800	340	
147						2				
148 Distribution Demand	2,627,281 \$	0.102055 \$	268,127		1.17%					
149										
150 Total General Service Transmission 151		i.	\$ 563.216					\$ 297.899		
152		ı								
153 Total Large General Delivery Service		•	\$ 22,835,440	11.00%	\$5.00% \$			\$ 27,580,166	100'001	0.00

PSC-A-4	Ÿ	Delaw	Delmarva Power & Light Company Delaware Weather Corrected Sales & Revenues 30 Year Weather Correction 12 Months Ending March 31, 2009	ght Company d Sales & Revenues Correction arch 31, 2009			
£ .	(2)	(0)	(4)	(5)	(6)	(2)	(8)
S Z	<u>Item</u>	œί	RSH	COM	ONI	ઢા	TOTAL
- (Delivered Sales(Kwh)	1,915,883,462	1,046,994,553	3,535,587,802	2,163,341.056	37.960,145	8,699,767,018
7645	Booked Revenue Distribution Transmission	\$61,307,992	\$25,453,055 \$4,055,479	\$54.565.934 \$5.871.488	\$10,121,453 \$749,994		156,858,300 21,558,567
9 ~	Generation (SOS)	\$207,607,650	\$107.675,235	\$162,117.622	\$31,946,948	\$2,594,129 \$	511,941,585
ထ σ	Total	\$279,797,247	\$137,183,770	\$222,555,044	\$42,818,395	\$8,003,996	\$690.358,452
9 은	Average Rates						
= 5	Distribution	3.20	2.43	45.1. 54.0.	0.47	14.25	
, tī ;	Generation (SOS)	10.84	10.28	4.59	1.48	6.83	
<u>a</u> रु त	Weather Corrected Delivered Sales (Kwh)	1,880,639,198	947,144,014	3,494,249,926	2,163,341,056	37,960,145	8,523,334,339
17	Weather Corrected Revenue						
18	Distribution	\$60,180,181	\$23,025,629	\$53,927,953	\$10.121,453	\$5,409,866	\$152,665.082
19	Transmission	\$10,681,429	\$3,668,713	\$5,802,839	\$749.994	800	\$20,902.975
2 5	derietation (505)	3503,700,333	400,000	5 100,222,133	040,040,104	32,334,123	9493,936,131
22	Total	\$274,650,145	\$124,100,728	\$219,952,944	\$42,818,395	\$8,003,996	\$669,526,208
2 5	Variance From Booked Revenue						
52		(\$1,127.811)	(\$2,427,425)	(\$637,982)	80	OS	(\$4.193,218)
56	Transmission	(\$200,176)	(\$386,766)	(\$68,649)	80	O\$	(\$655,591)
7.7	Generation (SOS)	(\$3,819,115)	(\$10.268,850)	(\$1,895,469)	0\$	8 0	(\$15.983.434)
9 62	Total	(\$5,147,102)	(\$13.083.042)	(\$2,602,100)	0\$	S	(\$20 832,244)
30							
31	CALCULATIONS ADDED BELOW				CALCULATIONS ADDED BELOW	DED BELOW	
33 65	WEATHER CORRECTION (KWH)	(35,244,264)	(99,850,539)	(41,337.876)	0	0	(176.432,679)
34							
35	Distribution Energy Rate	0.023009	0.018066				
37	Variance From Booked Revenue						
38	Distribution	(810.935)	(1,803.900)	180			
30							